



Jefferson Lab Alignment Group

Data Transmittal

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Checked:

: L978

DETAILS:

Based upon our as-found locations for the YA and YB magnets, the extracted and re-circulated beam locations were determined. On the YA magnets, the location could only be determined on the upstream end. Nominal X beam location in the south linac is -80.6 m. Nominal Y for pass 2 is 102.0 m, pass 4 is 101.5 m, pass 6 is 101.0 m and pass 8 is 100.5 m.

Magnet		X extracted	X recirculated	Height
YA2T01	Upstream	-80.6096	-80.5951	101.9999
YA4T01	Upstream	-80.6096	-80.5952	101.5000
YA6T01	Upstream	-80.6096	-80.5952	101.0000
YA8T01	Upstream	-80.6098	-80.5954	100.5000

The YA magnets were last surveyed in January 1998.

Magnet	X extracted upstream	X extracted downstream	X recirculated upstream	X recirculated downstream	Y upstream	Y Downstream
YB2T02	-80.6426	-80.6633	-80.5994	-80.5996	101.9995	101.9999
YB4T02	-80.6428	-80.6631	-80.5996	-80.5990	101.5001	101.5001
YB6T02	-80.6431	-80.6636	-80.5999	-80.5999	100.9998	100.9998
YB8T02	-80.6428	-80.6632	-80.5997	-80.5996	100.5001	100.5000

The YB magnets were located in January 2005.

The two YA magnets in the AT line were last surveyed in October 1998. These YA magnets are for the vertical separation of the 3 beam lines leading into the halls. Our surveys indicate that the actual locations of these magnets are within the error bar of their ideal positions (shown below).

Magnet	X	Hall A (Y)	Hall B (Y)	Hall C (Y)
YAAT01	-80.6000	100.0183	100.0000	99.9817
YAAT02	-80.6000	100.0196	100.0000	99.9811